4138

20° 23 1880

Form 504

DEPARTMENT, OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

State: Florida

11--5613

DESCRIPTIVE REPORT.

Hyd. Sheet No. 4138

LOCALITY:

Key West to Sand Key Lt

and Boca Grand Key

191**9**

CHIEF OF PARTY:

G.C. MATTRISONS FBT SIEMS

MAN KEY.

The location of the signals on Man Key for inshore hydrography was done by a plane table traverse. The traverse ran along the shore line on the southern side of the island, but on account of the mangrove trees overhanding the water's edge on the northern side, it was necessary to carry the traverse out in the water. The distance between stations was somewhat limited because of the difficulty experienced with the heat waves from the ground, and also to make sure of the distance, as there were no signals visible from which to get a "three point fix" or from which to resect.

The topography of the key has apparently changed very little.

The following signals were located by the plane table traverse:

GROV. A whitewashed slatted signal.

TAR. Ditto, only somewhat smaller.

DON. Similar to GROV. Near the naval practice target.

ROB. Similar to TAR, at extreme eastern end of western island.

HO. Two white flags on flagpole of shack on northwestern end of eastern island.

GET. Whitewashed slats on pole of unused naval rifle target. Southern end of eastern island.

WIL. Whitewashed slats in water on northern side of island.

CRAB. Whitewashed slats on extreme western end of western island.

WOMAN KEY.

The topography of Woman Key was run by plane table traverse. On southern side of island, it was carried along the water's edge, and stations checked by resections from Sand Key Lighthouse. Along northern side, it was carried out in the water (because of overhanding mangroves) by just an ordinary traverse, there being no signals to resect from. A cut has been made through the island where formerly there was a narrow strip of land. At the present time there is a naval rifle range along the southern shore, and a bridge connects the two islands. The Navy also has a second rifle range on the eastern end of the island, and has built a long pier extending out from southern side of eastern island.

The following signals were located:

WOMAN KEY (Continued)

(1) (2) (3) (4)	Whitewashed "Flags on tel Pole with re	slabs or Legraph	n tree. oole at	eastern end of island. nd of eastern rifle
	range.			
(5)	Whitewashed	slatted	tripod.	•
(6)	**	11	11	northwest point.
(7)	11	17	11	western sidemiddle.

Ronald Rome. D.O. USC+GS.

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TANKE NO

DEPARTMENT OF COMMERCE

U.S. COAST AND GEODETIC SURVEY WASHINGTON

SECTION OF FIELD RECORDS.

REPORT ON HYDROGRAPHIC SHEET No. 4138.

Surveyed in 1919.

Chiefs of Party: C. H. Ober and G. C. Mattison.

Surveyed by C. H. Ober, G. C.
Mattison & O. M. Straub.

Protracted by C. D. Meaney & F. M. Albert.

Soundings plotted by F. M. Albert.

Verified and inked by J. D. Torrey.

- 1. The records conform to the requirements of the General Instructions.
- 2. The plan and character of development fulfill the requirements of the General Instructions.
- The specific instructions on which work is based could not be found, but it is believed that the plan and extent of the survey conform to the instructions.
- 4. In general the sounding crossings are adequate.
- 5. The data was sufficient to completely draw the depth curves.
- 6. The field plotting was not completed to the extent prescribed in General Instructions, a portion only of the positions having been plotted in the field and none of the soundings were by the field party.
- 7. Although the development of shoal areas is very complete there are numerous indications of shoaler depths which can be investigated satisfactorily only by the wire drag.
- 8. The shorelines of Boca Grande Key, Man Key and Woman Key were traversed by the hydrographic party. The new survey of Woman Key is shown on a tracing which is attached to the descriptive report, but the new surveys of Boca Grande and Man Keys were shown only in pencil on one of the boat sheets. These were transferred in the office to the smooth sheet on the advice of Mr. Mattisom. Signals Ho and Get are located on an island least of Man Key. This island is shown on Topo. These W319.
- 9. The character and scope of the surveying are excellent, as well as that portion of the protracting that was done by the field party.
- 10. Reviewed by E. P. Ellis, June, 1921, and two copies of this report to be

Hydrographic Sheet # 4138 Horida Reefo my Keys

The work developed on this sheet appears to home been done to Doner Pertain areas not Somered by the wire drag! These areas have been sorefully gone oner, lines bring blosely run and sounded. and would appear sufficient to develop bottom conditions as nearly accurate as son by obtained with the sounding lead method, fat in somporing with Chart No. 584 many shoot spots appear which this latter surney does not denelop the sheet was pratracted, by the field porty and completed in this affire and although many very vations of this portion of the work was much no serious errors word disconcred The pencil platting was done in this office and found to be quite up to the standard. and indicated som and intellegence The paper use is of a inferior quality bring closely allied to blatting paper and full of fiber which made good and capid work impossible. This character of poper should bu avoided if possible.

John D. Tonney may 184 1921

ADDRESS THE SUPERINTENDENT

AND REFER TO No.

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

WASHINGTON

December 16, 1920.



Division of Hydrography and Topography:

Division of Charts:

Tidal reductions are approved in 34 volumes of sounding records for

HYDROGRAPHIC SHEET 4138

Vicinity of Key West, Florida. G. C. Mattison and C. H. Ober in 1919.

Plane of reference is Mean low water, reading

3.00 ft. on tide staff at Sand Key Lighthouse. 2.71 ft. " " " Marquesas Key.

Condition of records: Satisfactory.

Chief, Division of Tides and Currents.

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

The finished Hydrographic Sheet is to be accompanied by the following title sheet, filled in as completely as possible, when the sheet is forwarded to the Office.

U. S. Coast and Geodetic Survey.

Register No. 4138 Field No. 2
State Florida
General locality . Florida Reefs, Vicinity of Key West.
Locality . Key West to Boca Grande Key.
Chiefs of party . C. H. Ober & G. C. Mattison
Surveyed by C. H. Ober, G. C. Mattison, O. M. Straube
Date of survey March 4, 1919 to July 27, 1919.
Scale 1:15,000
Soundings in
Plane of reference
Protracted by C. D. Meaney F. M. A / bert Soundings in pencil by F. M.A.
Inked by J.D. Torrey Verified by J.D. Torrey
Records accompanying sheet (check those forwarded): Sand Key L. H. Des. report, 8. Tide books, Marigrams, 4 Boat sheets, Angle Sounding books, Ware-array books, O Photographs.
Data from other sources affecting sheet .Triangulation 1919. Traingulation data in Report of Supt. 1911. Monthly progress reports dated February 26, 1919. March 29, 1919. April 28, 1919, May 29, 1919. June 28, 1919, and Seasons Report of Chester H. Ober June 4, 1919. Remarks: Descriptive report to be obtained from Mesers. Ober and
As noted on one of the boat sheets, some of the shoals on west end of sheet # 2 were developed on Sheet # 3.

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